

117TH CONGRESS  
1ST SESSION

# S. 3175

To authorize the Secretary of Defense to carry out a pilot program on establishing data libraries for training artificial intelligence models, and for other purposes.

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IN THE SENATE OF THE UNITED STATES

NOVEMBER 4, 2021

Ms. ROSEN (for herself and Mr. PORTMAN) introduced the following bill; which was read twice and referred to the Committee on Armed Services

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## A BILL

To authorize the Secretary of Defense to carry out a pilot program on establishing data libraries for training artificial intelligence models, and for other purposes.

1       *Be it enacted by the Senate and House of Representa-  
2 tives of the United States of America in Congress assembled,*

**3 SECTION 1. SHORT TITLE.**

4       This Act may be cited as the “Advancing American  
5 Artificial Intelligence Innovation Act of 2021”.

1   **SEC. 2. DEPARTMENT OF DEFENSE PILOT PROGRAM ON**  
2                   **DATA LIBRARIES FOR TRAINING ARTIFICIAL**  
3                   **INTELLIGENCE MODELS.**

4       (a) PILOT PROGRAM AUTHORIZED.—The Secretary  
5   of Defense, acting through the Director of the Joint Artifi-  
6   cial Intelligence Center or such other official as the Sec-  
7   retary considers appropriate, may carry out a pilot pro-  
8   gram to assess the feasibility and advisability of estab-  
9   lishing data libraries for developing and enhancing artifi-  
10   cial intelligence capabilities to ensure that the Department  
11   of Defense is able to procure optimal artificial intelligence  
12   and machine learning software capabilities to meet De-  
13   partment requirements and technology development goals.

14       (b) AUTHORITIES.—In carrying out a pilot program  
15   under subsection (a), the Secretary may—

16               (1) establish data libraries containing Depart-  
17   ment data sets relevant to the development of artifi-  
18   cial intelligence software and technology; and

19               (2) allow appropriate public and private sector  
20   organizations to access such data libraries for the  
21   purposes of developing artificial intelligence models  
22   and other technical software solutions.

23       (c) ELEMENTS.—If the Secretary elects to carry out  
24   the pilot program under subsection (a), the data libraries  
25   established under the program—

1                         (1) may include unclassified data representative  
2                         of diverse types of information, representing Depart-  
3                         ment missions, business processes, and activities;

4                         (2) shall be categorized and annotated to sup-  
5                         port development of a common evaluation framework  
6                         for artificial intelligence models and other technical  
7                         software solutions;

8                         (3) shall be made available to such public and  
9                         private sector organizations as the Secretary con-  
10                         siders appropriate to support rapid development of  
11                         software and artificial intelligence capabilities;

12                         (4) shall include capabilities and tool sets to de-  
13                         tect, evaluate, and correct errors in data annotation,  
14                         identify gaps in training data used in model develop-  
15                         ment that would require additional data labeling,  
16                         and evaluate model performance across the lifecycle  
17                         of its use; and

18                         (5) shall be developed to support such other  
19                         missions and activities as the Secretary considers  
20                         appropriate.

21                         (d) BRIEFING.—Not later than 270 days after the  
22                         date of the enactment of this Act, the Secretary shall pro-  
23                         vide to the congressional defense committees a briefing on  
24                         implementing this section, including an identification of  
25                         the types of information that the Secretary determines are

1 feasible and advisable to include in the data libraries  
2 under subsection (b)(1).

3 (e) CONGRESSIONAL DEFENSE COMMITTEES DE-  
4 FINED.—In this section, the term “congressional defense  
5 committees” has the meaning given that term in section  
6 101(a) of title 10, United States Code.

